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KING'S COLLEGE

(UNIVERSITY OF LONDON)

Special Appeal

for

Endowment



1902



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KING'S COLLEGE, LONDON.

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Visitor.

HIS GRACE THE LORD ARCHBISHOP OF CANTERBURY.

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HIS GRACE THE LORD ARCHBISHOP OF YORK.
THE RT. HON. AND RT. REV. THE LORD BISHOP OF LONDON.
THE RT. HON. THE LORD CHIEF JUSTICE OF ENGLAND.
THE RT. HON. THE SECRETARY OF STATE FOR THE HOME
DEPARTMENT.
THE RT. HON. THE SPEAKER OF THE HOUSE OF COMMONS.
THE RT. HON. THE LORD MAYOR OF LONDON.
THE VERY REV. THE DEAN OF ST. PAUL'S.
THE VERY REV. THE DEAN OF WESTMINSTER.

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VICE-CHANCELLOR OF THE UNIVERSITY OF LONDON.

Secretary.

WALTER SMITH, ESQ.

* Representative of the Technical Education Committee of the Surrey County Council.

† Representative of the Technical Education Board of the London County Council.



KING'S COLLEGE, LONDON.

APPEAL

For a sum of **£500,000** for the Endowment
of the College as a School of the University of
London and of its Professorial Chairs.

Objects of Appeal.

THE Council of King's College appeal for a sum of £500,000 for the endowment of the College as a seat of higher education, learning, and research in connexion with the University of London.

The object of the appeal is to secure :

- (1) The liberation of the College from its existing debt.
- (2) The maintenance of the efficiency of the college in laboratories and equipment for higher teaching and research.
- (3) The adequate remuneration of its professors.

The Council would direct attention to the following considerations in proof of the necessity, for the sake of the higher educational needs of London, of securing, among the first steps toward the efficiency of the University as a teaching institution, the position of this College as one of its most important teaching centres.

The relation of the College to the University of London.

The reconstitution of the University imposes new responsibilities upon the Colleges which form its schools, and which have for upwards of seventy years, without adequate endowment and without the advantages of incorporation in any University, supplied London with all that it has possessed in the shape of University education. While important colleges have, during the period in question, been called into existence by the demand for institutions exclusively devoted to some particular subject or group of subjects, or to the needs of some particular profession, University College and King's College remain the only institutions which give instruction in all faculties alike, and they alone are recognised as such by the Statutes of the University. It is specially to the advantage of London and of the University that a certain number of such complete academic centres should be maintained. In them alone are teachers and students of widely different subjects brought into social and intellectual contact. The result is that both alike are lifted out of narrow professional grooves, the unity of knowledge is practically asserted, and all branches of study are liberalised by being brought into touch with science and learning as a whole. Centres exclusively devoted to a single faculty, or to applied science, are of

great value and importance as supplementary to a strong and many-sided University, but unless the existence of the latter is secured, institutions of the former kind can never by themselves generate the University habit of thought nor foster the University spirit of mutual help.

London needs more than one centre of general academic culture. Her University will thrive in proportion as it can rally to its support already existing centres, each with its own record of achievements in the past, and testifying by its existence, and by the large number of students it attracts, to the reality of the increasing need to which it responds.

The services which King's College has rendered to learning, science and education may be estimated not only by the long roll of men of the highest distinction who have been educated there but by the names which have adorned its professoriate in all departments.

**Past
Services of
King's
College**

Among its Theological professors have been Archbishop Trench, Bishops Ellicott, Barry, and Perowne, Dean Plumptre, Frederick Denison Maurice, Professor Swete, and Canon J. C. Robertson, author of the standard Church History; the two monumental modern works of reference in Church History were produced under the editorship of Professors of the College, namely, the "Dictionary of Christian Antiquities," by Archdeacon Cheetham, and the "Dictionary of Christian Biography," by Dr. Wace. The Chair of Modern History was held by J. S. Brewer, C. H. Pearson, and S. R. Gardiner; that of Classical Literature by J. G. Lonsdale, Joseph B. Mayor, and G. C. W. Warr; that of Economics by Nassau Senior, Thorold Rogers, Edgeworth and Cunningham; that of Oriental Languages and Literature by Duncan Forbes and of Arabic by G. W. Leitner.

**to Learning
and**

In Science, the College was the first institution in this country to provide laboratories for Physics and for Bacteriology. The Chair of the former subject has been held by Sir Charles Wheatstone, a pioneer of Electrical Science, and by Clerk Maxwell; that of Chemistry by Daniell and Miller; that of Geology by Sir Charles Lyell, one of the founders of Modern Geology, by Phillips, Ansted, and Duncan; that of Electrical Engineering by John Hopkinson. Its Professors of Physiology have included the names of Todd, Bowman, Beale, Rutherford, and Yeo. The Chair of Anatomy is associated with those of Partridge, Curnow, and Hughes. In Medical Science, among the many distinguished names of which the College can boast, it may suffice to mention those of Lord Lister, Sir Thomas Watson, Sir William Fergusson, Sir George Johnson, and Sir William Bowman. The Hospital connected with the College was the first home in London of Antiseptic Surgery, the most remarkable modern application of science to the saving of human life and the alleviation of suffering.

to Science.

It may be therefore claimed for King's College that it has done, throughout its past history, substantial service not only to the higher education of London, but to the advancement of learning and science. And when it is borne in mind that the College is (with the exception of scholarships and prizes) practically without endowment, it will be acknowledged that the results of its work are great beyond all proportion to its past or present resources. The Council feel that they are appealing to the public, on the strength of an honourable record of usefulness in the past, for means to continue and develop that usefulness in their future closer connexion with the reconstituted University of London.

**Its claim to
support.**

**Its aim as a
place of
Religion,
Learning,
and
Education.**

In addition to these considerations, King's College asks for support in regard to its distinctive *raison-d'être*. While providing, and resolved to provide in future, the very best facilities for teaching and research that can be offered in the various branches of science and learning, it is the principle of King's College that knowledge is ultimately one, and that these studies cannot profitably be wholly divorced from the problems which touch the heart of life and the fundamental realities of thought and being. As the result of careful consideration of the means best adapted, in view of the circumstances of the present day, to further that essential connexion between sound religion and useful learning upon which the greatness of our national character has been built up, and which the College was founded to uphold, the Council has decided that for the future its professorial appointments (in all faculties except that of Theology) shall be free from any religious test or disability whatsoever. King's College does not stand and never has stood for the subordination of learning and science to ecclesiastical control, but it believes in the power of religious influence in the building of moral character, and in the immense mutual gain which results from the vital contact of science freely and disinterestedly pursued, with the practice of religion and the study of religious questions.

**The
Faculty of
Theology.**

This is secured in the College by the presence of a Theological Faculty, the members of which worthily maintain the tradition of personal eminence which comes down from the past history of this department, by the services in the College chapel, and by the lectures on religious subjects which are offered, subject to exemption on reasonable grounds, to students of all faculties.

The present state of learning is such as to justify the belief that the relation between Theology and other branches of knowledge in the Universities is likely to become if anything closer as time goes on. To mention one example only of this tendency, the names of Mommsen, von Wilamowitz-Möllendorff, Blass, and W. M. Ramsay, scholars of the highest distinction who have found the crowning interest of their studies in the application of their results to the investigation of Christian literature and history, constitute in themselves one strong confirmation of the reasons which have led the reconstituted University of London to include Theology among its Faculties.

If King's College is to take its proper part in the work of this Faculty, some endowment for its Theological Chairs is most necessary. The University being debarred by its constitution from assuming responsibility for, or directly aiding, teaching distinctive of any religious body, the College will in no case receive financial aid for its Theological Faculty from public or University sources, but it is earnestly hoped that the education of our future clergy in an atmosphere at once of personal devotion and of intellectual energy, and in touch with the living movements of science and culture will appeal to thoughtful churchmen as an object worthy of their substantial support.

**The
Faculty of
Arts: its
relation to
practical
and
business
life.**

The development of the literary and linguistic work of the College is of the highest importance in order that the College may play its proper part in the education of men intended for business and commerce. In addition to the more elementary knowledge which ought to be gained at School, and to the highly specialised work at economic and commercial subjects which is the proper sphere of an institution designed wholly for

studies of this kind, the need is increasingly felt for the higher education, of the University type, of men destined for the more responsible positions in public life commerce and industry. This will fit them not only to acquire special knowledge, but to secure, by broad intellectual culture, the power to use such knowledge and to study professional problems in their widest possible bearings. The reconstitution of the University of London gives to King's College new opportunities for extending its work in this direction, of which the Council are prepared to avail themselves to the fullest extent when financial conditions enable them to do so.

The University of London as a whole, including all its constituent Colleges, will, it is to be hoped, accomplish much for the increased command of man over the resources of nature and for the increase of National Efficiency in every branch of applied science and technology. But no lasting progress in this direction is possible unless pure science is pursued as an end in itself. This is the proper work of a University; the study of applications is more suitable to technical institutions which have their fit place as the outliers of a strong central University in which investigation is pursued (to quote the words of the founder of modern inductive science) "not for fruit but for light." It is therefore of the highest moment for the future of the University of London that its existing resources for scientific work should be maintained, strengthened, and co-ordinated in the strictly University direction, side by side with, or if possible as a prior condition of, whatever is done towards developing technological institutions in connexion with the University.

**The
Faculty of
Science.**

The resources available for this purpose at King's College consist, in addition to very numerous lecture-rooms and theatres, and a large library, of the following principal laboratories. (1) A spacious suite of rooms devoted to Physics and Natural Philosophy, with a large museum. This department, will, if sufficient funds can be raised, be very greatly extended by the acquisition of space on the floors below. (2) An excellent series of Chemical laboratories, with a large theatre, and a well-equipped department for Scientific Photography. The accommodation for Chemistry could also, with the aid of further funds, be largely extended. (3) A splendid laboratory and other rooms for Geology, erected in 1900. This department requires at present but little extension as regards space, but considerable additions to its existing equipment could be made with advantage. (4) Sufficient space is already provided for a good laboratory and museum for Zoology, and when funds are raised for this purpose and for the endowment of the Chair, the department will be considerably extended. (5) The new laboratory and Professor's room for Botany would, with some little additional provision for equipment, be fully adequate to the present needs of the College. (6) The new Physiological laboratories are also excellent and capable of accommodating a very large number of students. A laboratory for Experimental Psychology is now being added to the department. (7) The same may be said of the Bacteriological laboratories, which have been recently extended. For many years they have attracted large numbers of post-graduate students from all parts of the Empire. (8) A laboratory for Pharmacology has recently been equipped, and important researches are being actively carried on in this department. (9) The Anatomical department of the College has been greatly extended and improved in recent years, and has lately received as a permanent possession the valuable collections left by

**Existing
Equipment
for Science
and possi-
bilities of
Extension.**

the late Professor Alfred Hughes, but the increasing influx of students renders certain further improvements and extensions urgently necessary. (10) The Public Health laboratories are commodious and modern. (11) Small but at present sufficient laboratories exist for teaching and research in Pathology, Surgical Pathology, and Neuro-Pathology. (12) For Engineering and Applied Mechanics the College possesses extensive laboratories and workshops, with the most modern equipment in machinery and apparatus. When adequate funds are forthcoming, it is proposed to make additions on some open ground adjoining the College, which will have the effect of practically doubling the present accommodation. (13) For Electro-Technology the College has the splendid laboratory and accessory rooms given some years ago by Lady Siemens in memory of the late Sir William Siemens, F.R.S., as well as a set of rooms for engines, dynamos and other machinery. Owing to the valuable gifts of machinery which the College has received for this department from the Westinghouse Company and others, extension, for which sufficient space is available, is urgently required and will be effected as soon as funds permit. (14) There is a large and very active department for Metallurgy, well adapted both for teaching and for research. (15) There is also a suite of extensive rooms devoted to Architecture, including a splendid museum, which comprises the valuable collection of drawings by the late Sir Gilbert Scott, presented by his son, Mr. J. Oldrid Scott, F.S.A.

Engineering.

Imperative
need of
general en-
dowment
and
additional
equipment.

The College is without endowment in respect of any one of the departments which have been enumerated. With the utmost economy of management, aided by the devotion and loyalty of the Professors, who have given their services to the College for remuneration sadly out of proportion to their personal distinction and to the excellence of their teaching, the Council has, on the whole, been able to conduct the work of the institution at a cost hardly, if at all, exceeding the total annual income. But the progress of science has involved increasing demands for accommodation and equipment which could neither be evaded without utterly crippling the efficiency of the College, nor met out of its ordinary resources. Accordingly, in spite of generous support which has been received from time to time, the College has been involved in debt to the extent, at present, of about **£35,000**, which has in turn brought with it an annual charge for interest. Among the urgent needs of the College, the extinction of this debt necessarily occupies the first place. In addition to the relief of about **£1,200** per annum, which would result from the extinction of this debt, at least **£3,000** per annum, representing a capital sum of **£100,000**, is requisite to provide for the reconstructions and additions to equipment which will be necessary from time to time to meet the advancing demands of science; while, in order to provide the extra space needed for many of the departments included in the foregoing sketch, a further capital sum of about **£100,000** is requisite. Add to this a sufficient sum, say **£30,000**, for general endowment, to provide an income of about **£1,000** per annum for Library, Museum, and similar expenses, and we reach a total of about **£265,000** as the sum required to place the College on a satisfactory basis, apart from the endowments needed for the Chairs in the several Faculties.

Endow-
ment for
Professor-
ships.

The following is an estimate of the income required for the endowment of Chairs in the several Faculties of the College, excluding that of Medicine except in respect of the Scientific Chairs dealing with the earlier part of the Medical curriculum.

FACULTY	CHAIRS	INCOME PER ANNUM £	ANNUAL TOTAL £
THEOLOGY	Six Professors (each)	300	1,800
ARTS	Two Classical (together)	1,000	
	Two History (together)	1,000	6,000
	Two English (together)	1,000	
	Two Mathematics (together)	1,000	
	Five Modern Languages (say)	2,000	
SCIENCE	One Physics	800	4,400
	Two Chemistry (together)	1,100	
	One Zoology	400	
	One Botany	400	
	One Geology	400	
	One Physiology	800	
	One Bacteriology	500	
SCIENCE (Applied)	One Engineering	800	3,200
	One Electro-Technology	800	
	Three Assist. Professors (together)	1,200	
	One Architecture	400	
SCIENCE (Medical)	One Anatomy	800	2,100
	One Pathology	500	
	One Pharmacology	400	
	One Hygiene	400	
			<u>£17,500</u>

This will leave the fees of students, amounting at present to about £18,000 per annum, available towards (a) expenses of general administration, (b) the remuneration of Lecturers and Demonstrators, (c) departmental expenses, and (d) additional chairs and some supplement to the incomes derived by Professors from the endowment which is asked for.

For the endowment, therefore, of Professorships in the College, an annual income of not less than £17,500 is required. Deducting from this sum the amount of the present Treasury grant, £2,300, and of the endowment of one Chair of Engineering now provided by the University, £1,000, we reach £14,200 as the net income which the College ultimately requires for the endowment of its chairs for teaching and research. Adding at the present time but a portion of the capital requisite for this purpose to the sum of £265,000 (as estimated above) necessary for general endowment and equipment, we reach, not as a sum adequate for complete endowment, but as the minimum amount required by the Council to place the College in a satisfactory working position, the sum of **£500,000**.

**Total
(minimum)
sum
required.**

The above sketch of the specific purposes for which funds are necessary is to be taken as indicating the general distribution of such adequate sum as may be raised for the purpose, not as binding the Council to each detail. But it will be open to donors to indicate, if they desire to do so, their preference for one or more of the special objects suggested. In default of such indication the Council will be free to apply all funds received as may appear to them most advantageous to the College.

Donations in response to the above Appeal, or in aid of any of the special objects indicated, may be sent to the College Bankers, MESSRS. COUTTS & Co. (KING'S COLLEGE ENDOWMENT ACCOUNT), STRAND, W.C., or to the HONOURABLE W. F. D. SMITH, M.P., TREASURER, KING'S COLLEGE, LONDON. Such donations may, if desired, be spread over a period of three to five years.

NOTE.—All communications with reference to the Appeal should be addressed to Professor W. J. Simpson. M.D., Secretary to the Appeal Committee, who will gladly supply any further information asked for.

DEANS OF THE FACULTIES OF KING'S COLLEGE, LONDON

Theology	...	...	...	...	{	REV. A. ROBERTSON, D.D., LL.D.
					{	REV. G. E. NEWSOM, M.A.
Arts	...	...	...	...		PROFESSOR W. H. H. HUDSON, M.A.
Natural Science	...	...				PROFESSOR W. G. ADAMS, F.R.S.
Engineering	...	...	...			PROFESSOR D. S. CAPPER, M.A., M.INST.C.E.
Medicine	...	...	...	...	{	PROFESSOR W. D. HALLIBURTON, F.R.S.
					{	RAYMOND CRAWFURD, M.D., F.R.C.P.

